

UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Cesar Astiz Montoya et al

Application Number: Unassigned

Filing Date: Concurrently Herewith

Group Art Unit:

Examiner:

Title: GAS HEATING DEVICE

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. 1.98, I am submitting a completed "INFORMATION DISCLOSURE STATEMENT BY APPLICANTS" (*Form PTO/SB/08A*) with patents and/or publications as delineated therein attached.

FR 2 239 916 discloses a method for the reduction of carbon monoxide emissions and non-burned residues in a gas-fired heating installation, characterized in that:

- flue gases are routed from the burner to a discharge opening positioned at a distance from the said burner, such that any contact between the flue gases and the ambient atmosphere is prevented;
- at the same time, a cold air stream which is drawn from the ambient atmosphere is injected into the flue gas stream at a point between the burner and the discharge opening;
- flue gases are mixed with the cold air stream at this point;
- the mass of flue gases, diluted by the cold air stream, is evacuated via the discharge opening.

FR 2 341 100 discloses that an advanced infrared radiator, of the type in which the combustion of gases is completed in a primary infrared radiation burner, in combination with a catalyzer device which is designed to eliminate non-burned combustion gases and toxic gases, characterized in that the gases produced by combustion in the primary burner, which is located on the exterior of the radiator such that combustion is completed in the open air and infrared radiation is discharged directly, before final discharge into the ambient atmosphere are compelled to pass through a catalyzer medium which is arranged on the interior of the radiator in a chamber which is located above the main radiator, into which the combustion

gases are admitted, by the action of convection, via one or more channels or openings in the lower partition of the chamber, such that the combustion gases are automatically routed from the exterior of the radiator to the interior, whereby the chamber in question will also admit an appropriate and controlled volume of ambient air, which will serve as the primary air for the post-combustion on the catalyzer medium of exhaust gases from the primary infrared burner.

FR 1 163 523 discloses that the object of the invention is the application of improvements to domestic combustion heating installations with no exhaust gas discharge, specifically of the liquefied gas-fired type, the said improvements consisting essentially – in combination with the inclusion in devices of this type of at least one primary combustion chamber in which an appropriate fuel is burned, preferably a gas which is dispensed from a liquefied gas tank – of the collection of exhaust gases discharged from the above-mentioned primary combustion chamber in a secondary combustion chamber, the interior of which is equipped with an oxidation catalyzer which is capable of initiating the post-combustion of the major proportion of at least the non-burned residues which are still present in the above-mentioned exhaust gases, specifically carbon monoxide and other constituents which will vary according to the nature of the source fuel, for example sulphurous constituents, as a result of which the thermal efficiency of the device will not only be improved by the post-combustion of non-burned residues, but the exhaust gases discharged into the premises in which the device is situated will be virtually odourless and free of toxic substances; more specifically, the invention relates to a certain mode of application (by which the invention is to be applied to domestic liquefied gas-fired radiators with no exhaust gas discharge) and to certain modes of construction for the above-mentioned improvements; more specifically, for the development of new industrial products, the invention relates to devices of the type considered which incorporate the same improvements, together with the specific tools and components required for the realization thereof and units or installations which are equipped with devices of this type.

ES 245660 discloses an infrared gas oven comprising a casing subdivided into two compartments, one at the front, in the lower part of which is situated the burner and ignition and safety elements, and the other at the back which serves as housing for the gas bottle and has a rear access door, characterized in that the burner is constituted of a single part tray of approximately horizontal rectangular configuration, with the bottom inclined in transverse direction, the lower longitudinal wall of greatest height of which has an internal flange,

slightly inclined outwards, whilst the other three walls have coplanar external flange paths, said tray being divided into transverse chambers by means of partitions which pass between the longitudinal walls and are fixed to the bottom, between the partitions and walls of the tray of which are mounted ceramic plates for homogenisation of the mixture and combustion, each one of these chambers being crossed by a mixture supply conduit which penetrates through an opening made in the largest wall of the tray which passes to an inclined upper partition which projects from the upper wall, the above-mentioned tray being surrounded by a carrier deflector of a refractory mesh, mounted between two opposite channels formed along the smaller edges of the contour defined by the deflector.

If no translation of pertinent portions of any foreign language patents or publications mentioned within the "INFORMATION DISCLOSURE STATEMENT BY APPLICANTS" is included with the aforementioned copies of those applications, patents and/or publications, it is because no existing translation is readily available to the Applicants. As per the Notice in 1273 OG 55 (August 5, 2003) no copies of any above-mentioned US patents and US patent application publications are submitted for this application which was filed after June 30, 2003.

Respectfully submitted



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August 29, 2006

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10/591084
IAP9 Rec'd PCT/PTO 29 AUG 2006

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	Unassigned
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First Named Inventor	Cesar Astiz Montoya et al
Art Unit	
Examiner Name	
Attorney Docket Number	2004P00286WOUS

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U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/J.P./		US- 1,703,900	03/05/1929	Harry M. Rowley	/
		US- 2,696,205	12/07/1954	Charles L. Ruhl	
		US- 2,859,742	11/11/1958	Charles L. Ruhl	
		US- 2,476,579	07/19/1949	A. W. Becker	
		US- 2002/0058226	05/16/2002	Brian S. Vandrak et al	
		US- 4,473,059	09/25/1984	Martin L. Nason	
/J.P./		US- 3,315,656	04/25/1967	John E. Eichenlaub	
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FOREIGN PATENT DOCUMENTS

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
/J.P./		FR 2 239 916	02/28/1975	Daniel Bouvier	/	
		EP 0 702 197	03/20/1996	Fernando Oiz Artaso		✓
		GB 2 183 329	06/03/1987	Geoffrey R. Wathen		✓
		FR 2 341 100	09/09/1977	S. A. Orbaiceta		
		GB 1 113 471	05/15/1968	Guy H. Fuidge et al		✓
/J.P./		FR 1 163 523	09/29/1958	Bernard Chanforan		

Examiner
Signature

/Jorge Pereiro/

Date
Considered

07/29/2008

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		Country Code ³ ~Number ⁴ ~Kind Code ⁵ (if known)				
/J.P./		ES 245660	01/01/1980	Metalicas De Pamplona S.A. (MEPAMSA)		
/J.P./		International Search Report PCT/EP2005/050977				

Examiner Signature	/Jorge Pereiro/
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Date Considered	07/29/2008
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